

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1030 to 1073

## TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1130

## REMARKS.

Depth	Spec	Temp	
Surface	1.0249	66	1.02514
5 fms	1.0249	66.5	1.02581
10 "	1.0249	65.5	1.02556

		Sawb	
		Time	Temp
		down	up
0		152.40	33.40
100		156.10	35.25
200		159.35	32.15
300		2.03.15	29.05
400		2.10.21	25.45
500		15.50	22.05
530		2.17.10	20.40

# TEMPERATURE RECORD.

*Chester Lake Sledge*  
Instrument used.

Current number of observation, 1030

Date, Sept 14, 1881

Locality,

Bearings, Lat 39.58.30 N.  
Long 69.15 W.

Time of day, 1.52 ; of tide,

State of sky, B. c.

Temperature of air, 65

" surface of water, 66

" at depth of 5 fathoms, 66 - 10 fms, 63

" of bottom, 41 20 - 48

30 - 45

50 - 49

100 - 46

Depth, in fathoms, 325 337

Nature of bottom, Yellow mud

Direction of surface current, Wind - E.N.E.

Force of surface current, Wind 4

Direction of bottom current, Drift N by W. 1 1/2

Force of bottom current,

Name of vessel, T. C.

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1031

## REMARKS.

1

Depth	Spec Grav.	Temp.	
Surface	1.0247	65	1.02539x
5 fms	1.0248	63.5	1.02528
10 "	1.0248	63	1.02521

	Down		Up	
	Time	Temp	Time	Temp
0	45.25	25.5	2.54.45	24.35
100	46.25	25.2	2.53.30	24.20
200	47.30	25.0	2.53.00	23.35, 25
300	48.25	24.9.50	—	—
400			3.05.25	23.15
500			3.05.50	22.45
520			3.08.30	
			3.09.05	22.05

100

# TEMPERATURE RECORD.

Instrument used,

*Trawl*

Current number of observation,

*1031*

Date,

*Sept. 14. 81*

Locality,

Bearings,

*Lat 39.57 N  
Long 69.19 W*

Time of day, *2.5* ; of tide,

State of sky,

*70.40*

Temperature of air,

*64*

" surface of water, *65*

" at depth of *5* fathoms, *63.5* *10 fms 58*

" of bottom, *26* *20* *47*

Depth, in fathoms, *255*

*30* *45*  
*50* *46*

Nature of bottom,

*yellow mud*

Direction of surface current,

*Wind - N N E*

Force of surface current,

*Force - 4*

Direction of bottom current,

*Drift N N E N - 1 1/2*

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1632

## REMARKS.

Depth	Spec	Temp	
Surface	1.0247	65	1.02539
5 fms	1.0247	63.5	1.02528
10 "	1.0248	63	1.02521

Trawl

	Down	Up
0	4.00.00	
100	56.30	
200	10.55	
300	15.00	
400	18.15	

# TEMPERATURE RECORD.

Instrument used, *Small Trawl*

Current number of observation, *152*

Date, *Sept. 14, 81*

Locality,

Bearings, *Lat 39.56 N*  
*Long 69.22 W*

Time of day, *4.00* ; of tide,

State of sky, *Cloudy*

Temperature of air, *65*

" surface of water, *65*

" at depth of *5* fathoms, *63.5*, *10 fms. 58*

" of bottom, *46* *20 47*

Depth, in fathoms, *200 208* *30 48*  
*50 46*

Nature of bottom, *Yellow Mud*

Direction of surface current,

*Wind NNE*

Force of surface current,

*Wind 5*

Direction of bottom current,

*Drift*

Force of bottom current, *N.W. 1/4'*

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,



## REMARKS.

1033.

Trawl  
Time

Down up

5.05

100

200

300

382

524

5.25

5.26.45-5.35.45

Reynolds Zambra Thermometer  
No. 46405. Dracked shield  
& used for surface tem-  
peratures.

No 46402. Substituted  
for bottom & intermediate  
temperatures.

# TEMPERATURE RECORD.

Instrument used, *Trawl.*

Current number of observation, *1033*

Date, *Sept 14, 1881.*

Locality,

Bearings, *Lat 39.56 N*

*Long 69.24 W*

Time of day, *4.55 ~~PM~~*

State of sky, *b. c.*

Temperature of air, *66°*

" surface of water, *63° N. E. #46405-*

" at depth of *5* fathoms, *63° 10' 57°*

" of bottom, *20, 47°*

Depth, in fathoms, *153*  
*175 f. S. E. 30, 47°*

Nature of bottom, *S. E.*

Direction of ~~surface~~ *surface* current, *N. E.*

Force of ~~surface~~ *do* current, *3.*

Direction of ~~bottom~~ *drift* current, *WNW.*

Force of ~~bottom~~ *do* current, *2 m.*

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

# 1034

## REMARKS.

Inland			Harbour		
Station	Depth		Station	Depth	
	11.57.20	1 SW	60.45		
	11.56.50	6.03.28	6.14.00	6.07.15	
148	15 2.35	1.2.2			
2			15.2	6.13.00	
300			20.0	6.12.00	

# TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1034

Date,

Sept, 14, 81

Locality,

Bearings,

Lat 39.50 N  
Long 69.26 W

Time of day,

5.53; of tide,

State of sky,

b. c.

Temperature of air,

66

" surface of water, 62.

" at depth of 5 fathoms,

2.9. 46.22.

" of bottom, 46.5

100 - 57

20 - 47

30 - 47

50 - 47

Depth, in fathoms, ~~146~~ 146

Nature of bottom,

Sand & shells mud

Direction of surface current,

Wind N E.

Force of surface current,

Wind 3

Direction of bottom current,

Drift - N N W 1/2 mile

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1035

REMARKS.

*[Faint handwritten notes]*

*Shall be found*

Date	Time
	Sun. 7:15
✓	6.56.15. 7.38.15
100	
	7:04

# TEMPERATURE RECORD.

Instrument used, *Trawl*  
 Current number of observation, *1035*  
 Date, *Sept. 10 81*  
 Locality,  
 Bearings, *Lat 39.50 N*  
*Long 69.20 W*  
 Time of day, *6.56* ; of tide,  
 State of sky, *b. c*  
 Temperature of air, *65*  
 " surface of water, *62*  
 " at depth of *5* fathoms, *60.0* *10 fms 57*  
 " of bottom, *27* *30 - 47*  
 Depth, in fathoms, *46 120*  
 Nature of bottom, *Sand*  
 Direction of ~~surface current~~, *Wind N.E*  
 Force of ~~surface current~~, *2*  
 Direction of bottom current,  
*Drift* *1.2*  
 Force of bottom current,  
 Name of vessel,  
 To what service attached,  
 Name and rank of commanding officer,  
 Name and position of observer,

# REMARKS.

July 18

10 - 1000

10 - 1000

10 -

1/2

1/2

July 18

# TEMPERATURE RECORD.

Instrument used,

Rake Bridge

Current number of observation,

1036

Date,

Sept 14, 8

Locality,

Bearings,

39.55  
69.3

Time of day,

2.54 P.M.; of tide,

State of sky,

b. c.

Temperature of air,

62.

"

surface of water,

61.5

"

at depth of

—

fathoms.

"

of bottom,

51

Depth, in fathoms,

40 9/10

Nature of bottom,

Sand

Direction of ~~surface~~ current,

Wind N.E.

Force of ~~surface~~ current,

11 mi 1/2

Direction of ~~bottom~~ current,

E. 1/2 N 70 71 1/2 mi

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,



## REMARKS.

# 1037 } Sept. 15 - 7.20 am  
16 ft. S. Traced - 100 ft. S. S.  
Leaving N. 2 3/4 W. 4.

1837  
Theological Seminary, Andover,

*[Faint handwritten notes and numbers are visible throughout the page, including "7/20" and "7-7".]*

# TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1028

Date,

Aug 21 1881

Locality,

Bearings, Lat. 38° 58' N Long 70° 06' W.

Time of day, 5:55 ; of tide,

State of sky,

Hazy - 6-

Temperature of air,

" surface of water,

" at depth of 5 fathoms, 68° - 10 fms 68°

" of bottom, gy S. 20 "

Depth, in fathoms,

146. f -

Nature of bottom,

gy S. 20 "

Direction of ~~surface~~ current,

Wind 4

Force of ~~surface~~ current,

Wind 4

Direction of ~~bottom~~ current,

Drift N+E 1 mile

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

Fish Commission

Name and rank of commanding officer,

John H. Smith

Name and position of observer,

# REMARKS.

1000 1000 1000

1000 1000 1000

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length of line out 295 fms

1039

## TEMPERATURE RECORD.

Instrument used, *Sigsbee*

Current number of observation, *19*

Date, *Oct 12*

Locality, *Lat 39.5-42.*

Bearings, *Long 70-06 W.*

Time of day, *9.30* ; of tide,

State of sky, *Heavy*

Temperature of air, *63.*

" surface of water, *63.*

" at depth of *5* fathoms, *63-64.*

" of bottom, *SC*

Depth, in fathoms, *132 136,*

Nature of bottom, *black mud.*

Direction of surface current, *North by E.*

Force of surface current, *1 mi. in 6*

Direction of bottom current, *North + N + E. 2 mi. in 6*

Force of bottom current,

Name of vessel, *U.S.S. Albatross*

To what service attached, *U.S. Fish Commission*

Name and rank of commanding officer, *John D. Sigsbee, Lt. Comdr. U.S.N.*

Name and position of observer,

10 ~~4.20~~

REMARKS.

Dr. J. H. ...

Excursion ...

... ..

Time

Depth	Time	...
- 80 -	10.40 -	11.15

100

200

300

340

11.08 - 11.26

Sample of ... 340 ...

1540

## TEMPERATURE RECORD.

Instrument used, *T. & W. for bridge*Current number of observation, *1540*Date, *Sept 21 1883*Locality, *Lat. 40. 00. 20. N.*Bearings, *Long. 70. 06. 20. W.*Time of day, *10.43* ; of tide,State of sky, *B. & C.*Temperature of air, *64°*" surface of water, *55°*" at depth of *5* fathoms," of bottom, *66°*Depth, in fathoms, *93.*Nature of bottom, *Sand & shells*Direction of ~~surface~~ current, *Wind N. N. E.*Force of ~~surface~~ current, *Wind 6*Direction of ~~bottom~~ current, *Drift N + 102*

Force of bottom current,

Name of vessel, *Fish Hawk*To what service attached, *F. C. M.*Name and rank of commanding officer, *James H. ...*

Name and position of observer,

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1046

## TEMPERATURE RECORD.

Vessel employed, *U.S.S. Albatross*Current number of observation, *1541*Date, *Sept 22 1881*Locality, *San Juan*Position, *West Chop St. E. 1/4 N. 1/4*Time of day, *12.33* : of tide.State of sky, *b. c.*Temperature of air, *65-67*" surface of water, *65*at depth of *5* fathoms, *65*" of bottom, *65*Depth, in fathoms, *65*Nature of bottom, *fine sand*Direction of surface current, *W. by N.*Force of surface current, *1/2 mile*Direction of bottom current, *drift - W. by N. 3/4 mile*

Force of bottom current.

Name of vessel, *U.S.S. Albatross*To what service attached, *U.S. Fish Commission*Name and rank of commanding officer, *Comdr. J. M. Smith*Name and position of observer, *J. M. Smith*



1242

REMARKS.

Faint	Soundings
100	1.12
102	1.17 - 1.20
106	1.22
107	1.25 1.31

# 2

## TEMPERATURE RECORD.

Instrument used, *C. & G. 111*

Current number of observation, *1542*

Date, *Sept 22 1881*

Locality, *Yuc. Sound*

Bearings, *West Chop 1 1/2 N. 1 1/2*

Time of day, *1.17* : of tide, *6. 6*

State of sky, *6. 6*

Temperature of air, *66.0*

" surface of water, *65*

" at depth of fathoms,

" of bottom, *6. 6*

Depth, in fathoms, *6*

Nature of bottom, *S. 1. 2. 3.*

Direction of surface current, *Wind S. 6. 1.*

Force of surface current, *1. 2. 3.*

Direction of bottom current, *at 1/2 N. 1/2 S. 1. 2.*

Force of bottom current,

Name of vessel, *U. S. Fish Com.*

To what service attached, *U. S. Fish Com.*

Name and rank of commanding officer, *J. L. Smith*

Name and position of observer,

10 43

REMARKS.

Depth	Spec. Grav	Temp
Surface	1.0256	62
5 fms	1.0254	61.5
10 "	1.0272	64

200 fms

2	7.47.15
100	7.44.05
200	7.41.05
260	7.38.55

# TEMPERATURE RECORD.

Instrument used, *Trawl.*

Current number of observation, *1043*

Date, *Oct. 10*

Locality, *off Cape Cod, Mass.*

Bearings, *Lat. 38. 35. N.*  
*Long 73. 11. W.*

Time of day, *7.17 am.* of tide,

State of sky, *partly cloudy*

Temperature of air, *63.5*

" surface of water, *65.5*

" at depth of *5* fathoms, *65.5*. *10 fms. 65.5*

" of bottom, *49°* *20 "* *22 "*  
*30 "*  
*50 "*

Depth, in fathoms, *125 130.*

Nature of bottom, *Sand*

Direction of ~~surface~~ *wind* current, *N. N. E*

Force of ~~surface~~ *wind* current, *4*

Direction of ~~bottom~~ current, *W. N. E* *1 1/2*

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1044

## REMARKS.

Depth spec. bar 300 ft.

Surf. 1.0252 65

5 fms 1.0252 65.

10 "

Counting

Crawling

Depth

Time

Wt

0	1.0252	8.31	9.18.50
100		8.35.05	9.15.50
200		89.15	9.12.00
300		43.15	9.09.45
400		47.15	9.05.20
409			9.05.45

Surf. 1.0252 65  
 Reference made to 300 fms.

# TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1044

Date,

Oct. 10. 81

Locality,

Bearings,

Lat. 38. 37 N.

Long. 73. 12 W.

Time of day,

8. 15 State of tide,

State of sky,

Partly Cloudy

Temperature of air,

65

"

surface of water,

66

"

at depth of

5 fathoms,

66° -

10 fms. - 65°

"

of bottom,

42. 3.

20. 62°  
30. 53°  
50 fms. 52°

Depth, in fathoms,

42. 3. 4.

Nature of bottom,

W. G. M.

Direction of ~~surface current~~, ~~Force of surface current~~,

Wind

2 W.

Force of ~~surface current~~, ~~Direction of bottom current~~,

Wind

3

~~Force of surface current~~, ~~Direction of bottom current~~,

1 ft.

14. 5

16. 5

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

From 10 to 11

Longitude	Latitude
100	
100	32.30 37.55
100	36.25 34.55
100	40.25 31.00
100	44.50 27.15
100	48.25 23.20
100	52.15 19.45
100	54.50 14.25
100	100.40 15.55
100	100.50 13.25

# TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation, *1045*

Date, *Oct. 10. 91*

Locality,

Bearings, *Sur 34. 35<sup>m</sup>, N.*

*Mag 73. 13 W.*  
Time of day, *9.32* ; of tide,

State of sky, *partly cloudy*

Temperature of air, *67*

" surface of water, *66*

" at depth of *5* fathoms, - *66° 10' 65°*

" of bottom, - *20 63*

Depth, in fathoms, *300 313*

Nature of bottom, *grey mud*

Direction of ~~surface current~~ *Wind - N. by E.*

Name of surface current, *3*

Direction of bottom current

Force of bottom current, -

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,



1046

## REMARKS.

Surface 1.0252. 65°  
 5 fms 1.0250 65  
 10 " 1.0255. 64

Depth	Spec.	Time	Temp
14.00	50.30	14.00	50.30
17.10	47.50	17.10	47.50
22.00	44.00	22.00	44.00
28.15	42.00	28.15	42.00

With one of broken (non-  
 - 47.995 substituted for  
 surface temperatures

# TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation, *1046*

Date, *Oct 10. 91*

Locality,

Bearings, *Lat 38.33. L*

*Long 73. 18 W.*

Time of day, *11.14* <sup>am</sup>; of tide,

State of sky, *Clear*

Temperature of air, *66°*

" surface of water, *66°*

" at depth of *5* fathoms, *65°* *10 f. 65°*

" of bottom, *51°* *20 f. 61°*  
*30 f. 53°*

Depth, in fathoms, *100 104* *50 f. 52*

Nature of bottom, *Sand* ~~*100 f. 52*~~

Direction of ~~surface current~~, *Wind North*

Force of ~~surface current~~ *Wind 4*

Direction of ~~bottom current~~,

Force of ~~bottom current~~, *Drift - N. N. W. 3/4 m.*

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

10 4

# REMARKS.

Sum

Sum

0	12.15	105.45
100	18.10	103.00
200	23.50	59.30
300	27.25	56.0
355	33.10	12.52.30

Register on beam should set  
when boat reached surface

# TEMPERATURE RECORD.

Instrument used, *60 11102*

Current number of observation, *104*

Date, *Oct. 10 81*

Locality, *1*

Bearings, *22 36 31 72*

*28 21 72*  
Time of day, *12.15* of tide.

State of sky, *clear*

Temperature of air, *60*

" surface of water, *66°*

" at depth of *5* fathoms, *65° - 105° 63*  
*204 61*

" of bottom, *49°* *357° - 50*

Depth, in fathoms, *150 156*, *50° - 51°*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *drift*, *North*

Force of ~~surface current~~, *4*

Direction of ~~bottom current~~ *drift*, *7. N. 1/2 W.*

Force of bottom current,

Name of vessel,

To what service attached,

2. Name and rank of commanding officer,

Name and position of observer,

REMARKS.

1.0250 65  
 1.0248 65.5  
 0248 65.5

1.0250 65.5  
 1.0248 65.5  
 0248 65.5

0	1.0250	56.05	1.55.00	16.00
100	1.0250	52.50	55.00	5.00
200	1.0250	50.00	52.00	4.00
300	1.0250	47.50	49.00	3.00
400	1.0250	45.00	46.00	2.00
500	1.0250	42.50	43.00	1.00
600	1.0250	40.00	40.00	0.00
700	1.0250	37.50	37.00	0.00
800	1.0250	35.00	34.00	0.00
900	1.0250	32.50	31.00	0.00
1000	1.0250	30.00	28.00	0.00

Minimum 1.0250 = 200.00

Height of ... 5 ft. over  
 when ...

# TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1041

Date,

Oct. 18, 1881

Locality,

Bearings,

Lat. 38, 25 N.

Long. 73, 21 W.

Time of day,

1.55

of tide,

State of sky,

bc

Temperature of air,

71

"

surface of water,

66

"

at depth of

5

fathoms,

65

"

of bottom,

40

10 + 65  
20  
30 - 49

Depth, in fathoms,

435

Nature of bottom,

Mud.

Direction of

~~surface current,~~

Wind North

Force of

~~surface current,~~

4

Direction of bottom current,

Drift - N.

2 miles

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1049

## REMARKS.

Trawl

0	2.30.50	7.07
100	3.51.00	5.03.00
200	40.15	58.20
300	44.40	53.45
400	48.00	50.15
500	51.20	46.30
600	53.50	42.30
700	56.00	4.37.00
800	58.00	4.23.30
77	6.58.30	4.11.15

200m weight on runners of  
trawl

the trawl was 3 fms. from  
water surface

# TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1049

Date,

Oct. 10. 81

Locality,

Bearings,

Lat 34. 28. 4

Long 122. 22. 00

Time of day,

3.30

P.M. 1/4 of tide.

State of sky,

Clear

Temperature of air,

68

"

surface of water, 66

"

at depth of

fathoms, 66 -

105

1

254

5.5

"

of bottom,

40<sup>0</sup>

50

5.0

Depth, in fathoms,

~~40~~

45.5

254

5.5

Nature of bottom,

Mud

Direction of surface current,

Var - 7 mi.

Force of surface current,

"

Direction of bottom current,

Drift 7 mi. 2 mi.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,



105-0

REMARKS.

Onelgongy of 1881  
and Dr. Jerome C. R.  
Chesapeake Bay, Maryland.

Iron ... ..

105-0

## TEMPERATURE RECORD.

Instrument used, *Oyster Linotype.*Current number of observation, *105-0.*Date, *Feb. 27, 1882.*Locality, *Off St. James' Church -*Bearings, *Point to Point, about 2 1/2*Time of day, *2 P.M.* of tide, *Ebb.*State of sky, *Partly clear.*Temperature of air, *50*" surface of water, *51.*

" at depth of fathoms,

" of bottom,

Depth, in fathoms, *1 1/2*Nature of bottom, *Blue mud, shells, Crabs.*Direction of ~~surface current~~, *wind S.E.*Force of ~~surface current~~, *" 1*~~Direction of bottom current~~, *drift*

Force of bottom current,

Name of vessel, *U. S. Fish Comm. Schooner*To what service attached, *U. S. Fish Comm. Schooner*Name and rank of commanding officer, *Lieutenant*

Name and position of observer,



1051

## TEMPERATURE RECORD.

Instrument used, *Cepter thermograph*Current number of observation, *1051*Date, *Feb, 27, 1882*Locality, *Off Pt. Lonsdale, Long Is.*Bearings, *24 x 3, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000*

## REMARKS.

Grader came up full of  
mud and gravel.

1052

## TEMPERATURE RECORD.

Instrument used, *Dryster Rees's*Current number of observation, *1052*Date, *Feb. 27 - 1882*Locality, *Off St. Jerome Creek*Bearings, *Point to Point - over E 3/4'*~~*North Point of St. Jerome Creek*~~Time of day, *3.30 pm* of tide, *Ebb*State of sky, *Partly cloudy*Temperature of air, *50*" surface of water, *41°*

" at depth of fathoms,

" of bottom, *40*Depth, in fathoms, *10 fath.*Nature of bottom, *Mud & Grass*Direction of ~~surface current~~, *Wind S.E.*Force of ~~surface current~~, *" 1*

Direction of bottom current.

Force of bottom current.

Name of vessel, *U.S.F.C. Fish Hawk*To what service attached, *Fish Commission*Name and rank of commanding officer, *Ensign**H. L. Tanner, U.S.N.*

Name and position of observer,

REMARKS.

Remains in light of the  
of a light

1053

## TEMPERATURE RECORD.

Instrument used, *Oyster Bredge*Current number of observation, *1053*Date, *Feb. 27 - 1882*Locality, *Off Pt. Jerome Creek*Bearings, *Point 2nd Point N. by E. 1/4*~~*North Point 1st. Jerome Creek, Wash.*~~Time of day, *2.45 Pm*; of tide, *Ebb*State of sky, *Partly Cloudy*Temperature of air, *50*" surface of water, *41*

" at depth of fathoms,

" of bottom, *40*Depth, in fathoms, *2 3/4*Nature of bottom, *Blue Mud & Shells.*Direction of ~~surface~~ <sup>surface</sup> current, *SE,*Force of ~~surface~~ <sup>surface</sup> current, *1*~~Direction of bottom current.~~ *Drift.*

Force of bottom current,

Name of vessel, *Fish Hawk*To what service attached, *Fish Commission*Name and rank of commanding officer, *Lieut. Comdr.**J. L. Tanner, U. S. N.*

Name and position of observer,



REMARKS.

Group of small cups of  
shells of Cyprina

1054

## TEMPERATURE RECORD.

Instrument used. *Repeating Thermometer*Current number of observation, *1054*Date, *Feb. 27 - 1882*Locality, *Off St. James Creek*Bearings, *Pt. St. James to S. E. 1 1/4'*~~*Off St. James Creek, Wash.*~~Time of day, *2.50 P.M.*; of tide, *Ebb*State of sky, *Partly Cloudy*Temperature of air, *50*" surface of water, *141*

" at depth of fathoms,

" of bottom, *40*Depth, in fathoms, *2.5/4*Nature of bottom, *1-2 fms. fine sand - shells*Direction of ~~surface current~~, *Wind S. E.*Force of ~~surface current~~, *Wind 1*Direction of ~~bottom current~~, *Drift*

Force of bottom current,

Name of vessel, *Fish Hawk*To what service attached, *Fish Commission*Name and rank of commanding officer, *Lieutenant**L. L. Tanner, U.S.N.*

Name and position of observer,

10555  
REMARKS.

10555  
REMARKS.

1055

## TEMPERATURE RECORD.

Instrument used, *Bathyc*  
 Current number of observation, *1055*  
 Date, *Feb. 23 - 1882*  
 Locality, *North Boston wharf*  
 Bearings, *Runway Pt. L.S.  $1/2$ '*  
  
 Time of day, *10.45* Day of tide, *Low*  
 State of sky, *B. Cloudy*  
 Temperature of air, *46*  
     " surface of water, *40*  
     " at depth of        fathoms,  
     " of bottom,  
 Depth, in fathoms, *2*  
 Nature of bottom, *— Mud & shells.*  
 Direction of ~~surface current~~, *Wind & surface*  
 Force of ~~surface current~~, *Wind*  
 Direction of bottom current,  
 Force of bottom current,  
 Name of vessel, *U.S. Fish Hawk*  
 To what service attached,  
 Name and rank of commanding officer,  
 Name and position of observer,

105-0

REMARKS.

1. The first of the two  
pages of the report is  
entirely blank.

# TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation, *1042*

Date, *Feb 25 1882*

Locality, *off Cape Cod*

Bearings, *200° E. 1/3'*

Time of day, *10.55 AM*; of tide, *Flood*

State of sky, *Cloudy*

Temperature of air, *42*

" surface of water, *40*

" at depth of        fathoms,

" of bottom,

Depth, in fathoms, *6*

Nature of bottom, *fine sand*

Direction of ~~surface current~~ Wind *Calm*

Force of ~~surface current~~ Wind *0*

Direction of bottom current,

Force of bottom current,

Name of vessel, *Fish Hawk*

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1057

REMARKS.

Jaarl came up with  
few Jelly Fish

# TEMPERATURE RECORD.

Instrument used, *Beam Therm*

Current number of observation, *101*

Date, *Dec 3*

Locality, *Off. Barren Islands*

Bearings, *South Pt Barren Isl. and*

*bearing E by S 1 3/4*

Time of day, *Mid*; of tide, *Flood*

State of sky, *Cloudy*

Temperature of air, *49*

" surface of water, *40*

" at depth of fathoms,

" of bottom, *40*

Depth, in fathoms, *17 - 20 - 12*

Nature of bottom, *Blue Mud*

Direction of ~~surface~~ current, *Wind N. 1*

Force of ~~surface~~ current, *1/2 mi*

Direction of bottom current,

~~Force of bottom current.~~ *Drift 1/2 W, 1/2 N*

Name of vessel, *U. S. Steamer Fish Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Lt J. Tanner*

Name and position of observer,

*101*



1058

REMARKS.

Trawl dropped in 3 fathoms  
and dragged across 25  
fathoms on WNW course  
Trawl hove up in 15 fathoms  
At 12,25 containing few  
small fish and grass  
1 crow fish, some shrimp and  
Young Murex

# TEMPERATURE RECORD.

Instrument used, *Beam Therm*  
 Current number of observation, *1058*  
 Date, *Feb 28<sup>th</sup> 1882*  
 Locality, *Off South end Barron Is.*  
 Bearings, *South Pt Barron Island*  
*bearing S 6 X E 1/2 E. 2'*  
 Time of day, *12.10* ; of tide, *Flood*  
 State of sky, *Cloudy*  
 Temperature of air, *49*  
     " surface of water, *40*  
     " at depth of      fathoms,  
     " of bottom, *40*  
 Depth, in fathoms, *3-25-13*  
 Nature of bottom, *Blue Mud*  
 Direction of surface current, *N*  
 Force of surface current, *1 1/2 Knot*  
 Direction of ~~bottom current~~, *wind N-1*  
 Force of ~~bottom current~~, *Drift W. N. E. 3/4*  
 Name of vessel, *U S Steamer Fish Hawk*  
 To what service attached, *Fish Commission*  
 Name and rank of commanding officer, *At 3d Lt*  
 Name and position of observer,

10 59

REMARKS.

Trawl put over in 2  $\frac{3}{4}$  fathoms  
water and dragged off shore  
W. W. Magnetic in 20 fathoms  
and was hauled up in 14 fms.  
at 12.48. Containing small  
fish and grass. Brit. Specimen

# TEMPERATURE RECORD.

Instrument used, *Beam Trawl*  
 Current number of observation, *1059*  
 Date, *Feb 28<sup>th</sup> 1882*  
 Locality, *off Barren Island*  
 Bearings, *St Pt Barren Island S E*  
*1/4 E 2'*  
 Time of day, *12.30* ; of tide, *Flood*  
 State of sky, *Cloudy*  
 Temperature of air, *49*  
 " surface of water, *40*  
 " at depth of fathoms,  
 " of bottom, *40*  
 Depth, in fathoms, *2 3/4 fathoms - 25 - 14*  
 Nature of bottom, *Blue Mud*  
 Direction of surface current, *N*  
 Force of surface current, *1 1/2 Knots*  
 Direction of ~~bottom current~~ *wind - Calm*  
 Force of ~~bottom current~~, *Drift WNW, 3/4*  
 Name of vessel, *U. S. Steamer Fish Hawk*  
 To what service attached, *Fish Commission*  
 Name and rank of commanding officer, *Wm J. Tanner*  
*W J T*  
 Name and position of observer,

1860

REMARKS.

Beam Trawl was  
put over at 11.45 and  
dragged S E x S  $\frac{3}{4}$  mile  
At 5 hove up Trawl it  
containing little grass  
Shells & blue mud

# TEMPERATURE RECORD.

Instrument used, *Beam Therm*  
 Current number of observation, *1060*  
 Date, *Feb 28<sup>th</sup> 1882*  
 Locality, *Smith Point*  
 Bearings, *Smiths Pt SSW, 2 1/2*

Time of day, *4:40* : of tide, *Flood*

State of sky, *Cloudy*

Temperature of air, *46*

" surface of water, *41*

" at depth of fathoms,

" of bottom, *40 1/2*

Depth, in fathoms, *7*

Nature of bottom, *Blue mud & shells*

Direction of surface current, *Wind NE*

Force of ~~surface current~~, *Wind 2*

Direction of ~~bottom current~~, *Drift SE x S 3/4 mile*

Force of bottom current,

Name of vessel, *U.S. Steamer Fish Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Lt Jd Tanner*

Name and position of observer,

*C H. Cleveland*

*U.S.N. 651*

1061

REMARKS.

at 11,20

Dredge was put over  
in 11 fathoms water

and hauled up at 11,28

from 16 fathoms water containing

1 shrimp - half dozen

small shell & blue mud

& small fish

# TEMPERATURE RECORD.

Instrument used, *Dredge*  
 Current number of observation, *9061*  
 Date, *March 2<sup>nd</sup> 1892*  
 Locality, *Chesapeake Bay*  
 Position, *Smooth Pt. L. 10 52 55 S*  
*S. 47 1/2 W. 1 1/2*  
 Time of day, *11.20* : of tide, *Ebb*  
 State of sky, *Clear*  
 Temperature of air, *48*  
 " surface of water, *41 1/2*  
 " at depth of \_\_\_\_\_ fathoms,  
 " of bottom, *41 1/2*  
 Depth, in fathoms, *11-16*  
 Nature of bottom, *Blue mud & shells*  
 Direction of ~~surface current~~, *Wind NE*  
 Force of ~~surface current~~, *Wind 2*  
 Direction of ~~bottom current~~, *Drift 2 1/2 miles*  
 Force of bottom current,  
 Name of vessel, *U.S.S. Fish Hawk*  
 To what service attached, *Fish Commission*  
 Name and rank of commanding officer, *St. J. Tanner*  
 Name and position of observer,



1062

REMARKS.

Beam Trawl put over  
at 11.40 in 16 faths water  
and hauled up at 11.55 from  
3 1/2 faths containing nothing

# TEMPERATURE RECORD.

Instrument used, *Beam Therm*  
 Current number of observation, *1062*  
 Date, *Feb 2 - 1882*  
 Locality, *Chesapeake Bay*  
 Bearings, *Smith Pt Lt S 10° E 1/2 S*

Time of day, *11.40* ; of tide, *Ebb*

State of sky, *Clear*

Temperature of air, *48°*

" surface of water, *41 1/2*

at depth of fathoms,

" of bottom, *41 1/2*

Depth, in fathoms, *16-11-10-9 1/2*

Nature of bottom, *Blue mud & shells*

Direction of ~~surface current~~, *Wind S 1/2 E*

Force of ~~surface current~~, *Wind 2*

Direction of ~~bottom current~~, *Drift S 1/2 E 1 mile*

Force of bottom current,

Name of vessel, *U S Steamer Fish Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Ct Jd Tamm*

Name and position of observer,

1063

REMARKS.

Chester Rake Dredge  
was put over at 1.35 P.M.  
in 10 1/2 fathoms water  
and hove up at 1.45 from  
9 3/4 fathoms containing Sea  
muck and shrimp also  
two species of marine  
worms & small fish

# TEMPERATURE RECORD.

Instrument used, *Chester R. R. Sigsbee*  
 Current number of observation, *1063*  
 Date, *March 2<sup>d</sup> 1882*  
 Locality,  
 Bearings, *N x E  $\frac{3}{4}$  E Sout Point of Tangier Island*  
 Time of day, *1.35* 1/2 of tide, *Flood*  
 State of sky, *Clear*  
 Temperature of air, *50*  
 " surface of water, *44*  
 " at depth of fathoms,  
 " of bottom, *42*  
 Depth, in fathoms, *10 1/2 - 10 - 9 1/2*  
 Nature of bottom, *Grass & Blue Mud*  
 Direction of ~~surface current~~, *Wind North*  
 Force of ~~surface current~~, *Wind 2*  
 Direction of bottom current, *Drift 1 S x E 1/2 mile*  
 Force of bottom current,  
 Name of vessel, *Fish Hawk*  
 To what service attached, *U S Fish Commission*  
 Name and rank of commanding officer, *St J. Cannon*  
 Name and position of observer,

1064

REMARKS.

Christie Rake Sledge  
was put over at 2.17 PM  
in 20 fathoms water and  
hove up at 2.25 from  
9 1/2 fathoms water containing  
Black mud & dead Oyster  
Shells and dead grass  
2 dozen Shrimp - Brown  
tubes & small Shell

# TEMPERATURE RECORD.

Instrument used, *Chester Rake Gudge*

Current number of observation, *1064*

Date, *Feb 2 " 1872*

Locality,

Bearings, *N N W South Pt of*

*Tongue Island 1'*

Time of day, *2.17* ; of tide, *Flood*

State of sky, *Clear*

Temperature of air, *50*

" surface of water, *42*

" at depth of fathoms,

" of bottom, *42*

Depth, in fathoms, *20 - 9 1/2 -*

Nature of bottom,

Direction of ~~surface~~ current, *Wind N W*

Force of ~~surface~~ current, *Wind 2*

Direction of ~~bottom~~ current, *Drift N E & E 1/2 mile*

Force of bottom current,

Name of vessel, *Fish Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Lt J. L. Sannes*

Name and position of observer,

1065

REMARKS.

Beam Trawl was put over  
at 9 am in 25 fathoms water  
and dragged W about 1/2  
mile - At 9.10 hove up Trawl  
in 12 fathoms it containing  
Sea urchins 150 fish  
4 Skates 15 Hermit Crabs  
25 Brit. 50 small Nereis  
several Shrimps 2 Sea  
Anemones - Several Pipe fish  
10 Small Flounders

Wt. Chertseyton 14.15.60 **E. N. L.**

# TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *10.65*

Date, *Mar 6<sup>th</sup> 1882*

Locality, *Chesapeake Bay*

Bearings, *Run off Entrance to Chesapeake*

*Light bearing East 1/2 S 3/4*

Time of day, ; of tide, *Flood*

State of sky, *Cloudy*

Temperature of air, *56*

" surface of water, *49*

" at depth of fathoms,

" of bottom, *46.5*

Depth, in fathoms, *25*

Nature of bottom,

Direction of ~~surface current~~, *Force 3.5*

Force of ~~surface current~~, *3*

~~Direction of bottom current~~, *Force 1/4 mile*

Force of bottom current,

Name of vessel, *Tusk Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Ensign*

*J. L. Tanner U. S. N.*

Name and position of observer,



1066

REMARKS.

Beaver Island was first seen  
at 9.20 AM, at 12 fms. water.  
One dead seal seen at 9.30  
fms. at 16 fms.  
containing grass and half  
dozen small fish (Bait)

not seen. 12.3.

# TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1066*

Date, *Mon. 6. 1882*

Locality, *Chesapeake Bay.*

Bearings, *Run off Entrance to Chesapeake*

*Light bearing E. S. E. 2'.*

Time of day, *7. 41* : of tide, *Flood*

State of sky, *Cloudy*

Temperature of air, *56.*

" surface of water, *45*

" at depth of fathoms,

" of bottom, *45*

Depth, in fathoms, *12*

Nature of bottom,

Direction of ~~surface current~~, *Wind S. S. E.*

Force of ~~surface current~~, *Wind 3.*

Direction of ~~bottom current~~, *Drift E. S. E. 1/4 mile*

Force of bottom current,

Name of vessel, *Fish Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Lieut. Comdr.*

*W. L. G. 10. 11. 12*

Name and position of observer,

## REMARKS.

Beam Trawl was put  
 over at 9.40 am in 12  
 fathoms water, at 9.55. hove up  
 the Trawl. In 20 fms. water,  
 at 3.14 pm. 2 Skates, about  
 50 small Hake, 1 big fish  
 1 crab 25 Brit. and  
 several Shrimps. 1 Horn fish  
 12 Plaunders and few  
 Hermit Crabs & small shell  
 eggs there.

Lat. 54. 18. 0. Long. 14. 4. 3.

# TEMPERATURE RECORD.

Instrument used, *Barnes Thermometer*

Current number of observation, *1067*

Date, *Mar. 6 - 1882*

Locality, *Off Cape Cod*

Bearings, *Bury on entrance to Long Point*

*Heavily S.E.  $\frac{1}{4}$  S  $2\frac{1}{4}$*

Time of day, *9.40 AM*; of tide, *Flood*

State of sky, *Partly Cloudy*

Temperature of air, *56*

" surface of water, *45*

" at depth of \_\_\_\_\_ fathoms,

" of bottom, *47*

Depth, in fathoms, *12*

Nature of bottom,

Direction of ~~surface current~~, *Wind S.S.*

Force of ~~surface current~~, *Wind S.*

~~Direction of bottom current~~, *Bright WNW  $\frac{1}{2}$  mile*

Force of bottom current,

Name of vessel, *Fish Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Lieut. Comdr.*

*J. L. Tanner, U. S. N.*

Name and position of observer,

## REMARKS.

Beam trawl towed down with  
 gear at 10.30 min 14 fms.  
 of water. At 10.15 beam  
 up 13 min 20 sec. It being  
 down down 15 minutes,  
 containing 1 Perch several  
 flat fish - mud & grass

# TEMPERATURE RECORD.

*Steamer U.S.N.*

Instrument used, *N.Y. 46402*

Current number of observation, *1068*

Date, *Mar. 11, 1881.*

Locality, *Off Point Ledge*

Bearings, *From house by*

*N x S.  $\frac{3}{4}$  S. 2.*

Time of day, *9.50* of tide, *Ebb.*

State of sky, *B - C -*

Temperature of air, *49*

" surface of water, *42*

" at depth of fathoms,

" of bottom, *41*

Depth, in fathoms, *14-9-*

Nature of bottom, *Dark Mud*

Direction of ~~surface current~~ *Wind S.W.*

Force of ~~surface current~~ *Wind 4*

~~Direction of bottom current~~ *Drift N  $\frac{1}{2}$  mile*

Force of bottom current.

Name of vessel, *Fish Hawk*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *Lieutenant*

*J. L. Tanner, U.S.N.*

Name and position of observer,

1069

## REMARKS.

<sup>17</sup>  
Herring 260 lb was kept  
<sup>at 1000 fms</sup>  
over 1000 fms from shore & the  
water. Herring up to 12 inches  
long. It has been  
observed 12 minutes containing  
sea weed & several young  
Herring.

# TEMPERATURE RECORD.

Instrument used, *Thermometer*  
 Current number of observation, *1363*  
 Date, *March 11-1892*  
 Locality, *Off Rock Island*  
 Bearings, *Thomson Pt. Light*  
*Bearing: S. 15° x W. 3/4° 2.74*  
 Time of day, *10.20* : of tide, *ebb*  
 State of sky, *Clear*  
 Temperature of air, *51*  
 " surface of water, *42*  
 " at depth of fathoms,  
 " of bottom, *40*  
 Depth, in fathoms, *18*  
 Nature of bottom, *Rock & mud.*  
 Direction of ~~surface current~~, *Wind N.W.*  
 Force of ~~surface current~~, *Wind 4*  
 Direction of ~~bottom current~~, *Drift S.W. 1/2 mi.*  
 Force of bottom current,  
 Name of vessel, *Fish Hawk*  
 To what service attached, *Fish Commission*  
 Name and rank of commanding officer, *Lieut. Comdr.*  
*Wm. L. Turner, U.S.N.*  
 Name and position of observer,



1070

## REMARKS.

Beaver Trap was put  
 over at 10.45 Am, in  
 15 fms. of water, it having  
 been down 15 minutes  
 from it up contained several  
 young Menhaden. 2 Small  
 Rock fish and 1 flounder

# TEMPERATURE RECORD.

Instrument used,

Reece Therm.

Current number of observation,

1070

Date,

March 11, 1882

Locality,

Off Cape Cod

Bearings,

from N. S. Light

bearing  $15^{\circ}$  x  $8^{\circ}$  S. E.

Time of day, 10.45 am; of tide,

ebb

State of sky,

Clear

Temperature of air,

45-

" surface of water,

42

" at depth of

fathoms,

" of bottom,

42

Depth, in fathoms,

15 - 11 - 10

Nature of bottom,

Black mud

Direction of ~~surface~~ current,

Wind S.W.

Force of ~~surface~~ current,

Wind 4

Direction of ~~bottom~~ current,

Drift S. S.W.  $\frac{1}{2}$  mile

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

Fish Commission

Name and rank of commanding officer,

Lieutenant

J. G. Tanner, U. S. N.

Name and position of observer,

## REMARKS.

Beam Trawl was put  
 over at 1122 AM. in 14 fms.  
 of water and hauled up  
 at 14 minutes of 12 PM.  
 It having been down 24  
 minutes. Contained a few  
 shrimp and young mermaid.

# TEMPERATURE RECORD.

Instrument used, *Beam Thermometer*  
 Current number of observation, *1071*  
 Date, *March 11, 1892*  
 Locality, *Off. Rock Point, N. Pl.*  
 Bearings, *Thermostat, N. bearing*  
*W x N 1/2 N. 2, 1/4*  
 Time of day, *11, 22 AM* of tide, *2 1/2*  
 State of sky, *Clear*  
 Temperature of air, *49*  
 " surface of water,  
 " at depth of fathoms,  
 " of bottom, *40*  
 Depth, in fathoms, *14 - 15 - 13.*  
 Nature of bottom, *Dark mud*  
 Direction of ~~surface current~~, *Wind N.W*  
 Force of ~~surface current~~, *Wind 4*  
 Direction of ~~bottom current~~, *Drift S 7/8 E - 3 1/4 miles*  
 Force of bottom current,  
 Name of vessel, *Fish Hawk*  
 To what service attached, *Fish Commission*  
 Name and rank of commanding officer, *Lieutenant*  
*W. L. Tanner, U.S.N.*  
 Name and position of observer,

1072

REMARKS.

Low Rake dredge over  
12 m. in 16 fms of  
water - At 12.20 hauled  
up dredge it containing  
nothing.

# TEMPERATURE RECORD.

Instrument used, *Rake thermometer*  
 Current number of observation, *1072*  
 Date, *March 11 - 1882*  
 Locality, *Off Kent Island*  
 Bearings, *Thomas Pt. bearing*  
*N. W. 2 1/4*  
 Time of day, *12 m* ; of tide, *Ebb*  
 State of sky, *Clear*  
 Temperature of air, *50*  
 " surface of water, *42*  
 " at depth of fathoms,  
 " of bottom, *42*  
 Depth, in fathoms, *16*  
 Nature of bottom, *Black mud*  
 Direction of ~~surface current~~, *Wind N.W.*  
 Force of ~~surface current~~, *Wind 4*  
 Direction of ~~bottom current~~, *Drift S 3/4 mile*  
 Force of bottom current,  
 Name of vessel, *Fish Hawk*  
 To what service attached, *Fish Commission*  
 Name and rank of commanding officer, *Lieutenant*  
*J. L. Tanner U. S. N.*  
 Name and position of observer,

1073

## REMARKS.

Put Rake Dredge over at  
 12.25 PM in 15 fathoms  
 Water at 12.47 Hove up Rake  
 Dredge - it containing Cyster  
 shells & grass - 2 crabs and  
 2 marine worms

# TEMPERATURE RECORD.

Instrument used, *Rake Dredge*

Current number of observation, *1073*

Date, *March 11<sup>th</sup> 1882*

Locality, *off Kent Island*

Bearings, *Thomas Pt bearing*  
*NW x N 2 1/2*

Time of day, *12.25* ; of tide, *Ebb*

State of sky, *Clear*

Temperature of air, *50*

" surface of water, *42*

" at depth of fathoms,

" of bottom, *42*

Depth, in fathoms, *13 - 13 -*

Nature of bottom, *Blk Mud & Shells*

Direction of ~~surface current~~, *Wind NW*

Force of ~~surface current~~, *Wind 3*

Direction of ~~bottom current~~, *Drift SSW*

Force of bottom current,

Name of vessel, *"Fish Hawk"*

To what service attached, *Fish Commission*

Name and rank of commanding officer, *St Izera Le*

*Tanner USN*

Name and position of observer,



REMARKS.

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